

## SEQUENCE LISTING

&lt;110&gt; Scott, Robert E.

&lt;120&gt; cDNA encoding P2P proteins and use of P2P cDNA-derived antibodies and antisense reagents in determining the proliferative potential of normal, abnormal and cancer cells in animals and humans

&lt;130&gt; D6386D

&lt;140&gt;

&lt;141&gt; 2001-03-16

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&lt;151&gt; 1997-02-18

&lt;160&gt;

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&lt;221&gt;

PEPTIDE

&lt;223&gt;

P2P polypeptide

&lt;400&gt;

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Cys Cys Gly Asn Ser Ser Cys Asp Glu Cys Ile Arg Thr Thr Leu  
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Lys Gln Leu Pro Pro Phe Leu Phe Leu Val Pro Pro Pro Arg Pro  
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Leu Ser Gln Arg Asn Leu Gln Pro Arg Ser Arg Ser Pro Ile Leu  
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|     |     |     |     | 200 |     |     |     |     | 205 |     |     |     |     | 210 |
| Gln | Ser | Ser | Leu | Ala | Pro | Pro | Val | Ser | Gly | Asn | Pro | Ser | Ser | Ala |
|     |     |     |     | 215 |     |     |     |     | 220 |     |     |     |     | 225 |
| Pro | Ala | Pro | Val | Pro | Asp | Ile | Thr | Ala | Thr | Val | Ser | Ile | Ser | Val |
|     |     |     |     | 230 |     |     |     |     | 235 |     |     |     |     | 240 |
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| Leu | Leu | Pro | Ala | Ala | Ala | Leu | Thr | Ser | Glu | His | Ser | Lys | Gly | Ala |
|     |     |     |     | 260 |     |     |     |     | 265 |     |     |     |     | 270 |
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|     |     |     |     | 320 |     |     |     |     | 325 |     |     |     |     | 330 |
| Leu | Gly | Tyr | Leu | Val | Ser | Pro | Pro | Gln | Gln | Ile | Arg | Arg | Gly | Glu |
|     |     |     |     | 335 |     |     |     |     | 340 |     |     |     |     | 345 |
| Arg | Ser | Cys | Tyr | Arg | Ser | Ile | Asn | Arg | Gly | Arg | His | His | Ser | Glu |
|     |     |     |     | 350 |     |     |     |     | 355 |     |     |     |     | 360 |
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| Thr | Leu | Pro | Leu | Pro | Pro | Gly | Val | Pro | Pro | Pro | Gln | Phe | Ser | Pro |
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| 575 | 580 | 585 |     |
| Arg | Glu | Val | Pro |
| Pro | Pro | Tyr | Asp |
| Ile | Lys | Ala | Tyr |
| 590 | 595 | 600 | Tyr |
| Ser | Val | Asp | Phe |
| Arg | Asp | Pro | Phe |
| Glu | Lys | Glu | Arg |
| 605 | 610 | 615 | Tyr |
| Trp | Glu | Arg | Lys |
| Tyr | Arg | Glu | Trp |
| Trp | Tyr | Glu | Lys |
| 620 | 625 | 630 | Tyr |
| Tyr | Ala | Val | Gly |
| Ala | Gln | Pro | Arg |
| 635 | 640 | 645 | Pro |
| Phe | Ser | Pro | Glu |
| Arg | Leu | Leu | Pro |
| Leu | Asn | Ile | Arg |
| 650 | 655 | 660 | Asn |
| Phe | Thr | Arg | Gly |
| Arg | Arg | Glu | Asp |
| Tyr | Ala | Ala | Gly |
| 665 | 670 | 675 | Gln |
| Arg | Asn | Arg | Asn |
| Leu | Gly | Gly | Asn |
| 680 | 685 | 690 | Tyr |
| Arg | Asp | Ser | His |
| Asn | Ala | Lys | Asp |
| 695 | 700 | 705 | Asn |
| Glu | Ser | Glu | Asn |
| Val | Pro | Gly | Asp |
| 710 | 715 | 720 | Gly |
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| Arg | Arg | Asn | Glu |
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| Ser | Phe | Leu | Asn |
| Pro | Glu | Leu | Leu |
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| Ile | Asp | Glu | Thr |
| 755 | 760 | 765 | Lys |
| Leu | Pro | Ser | Arg |
| Asp | Asp | Ala | Thr |
| 770 | 775 | 780 | Pro |
| Asp | Ala | Glu | Ser |
| Ile | Thr | Phe | Lys |
| 785 | 790 | 795 | Ser |
| Arg | Glu | Lys | Asp |
| Lys | Pro | Lys | Val |
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| Ser | Ala | Thr | Ala |
| 815 | 820 | 825 | Lys |
| Pro | Ser | Lys | Gly |
| 830 | 835 | 840 | Asp |
| Ser | Pro | Arg | Ser |
| Glu | Pro | Por | Leu |
| 845 | 850 | 855 | Lys |
| Thr | Lys | Ile | Asp |
| Ser | Val | Lys | Pro |
| 860 | 865 | 870 | Ser |
| Glu | Lys | Val | Thr |
| Gly | Thr | Pro | Arg |
| 875 | 880 | 885 | Lys |
| Lys | Asp | Thr | Arg |
| Arg | Gln | Ser | Gln |
| 890 | 895 | 900 | Pro |
| Arg | Thr | Val | Pro |
| Lys | Thr | Ser | Ser |
| 905 | 910 | 915 | Gln |
| Thr | Arg | Arg | Pro |
| Arg | Ser | Leu | Arg |
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| Glu | Arg | Glu | Lys |
| 935 | 940 | 945 | Arg |
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| Ile | Ser | Lys | Val |
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|     |     |     | Thr |

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| 965                                 | 970                 | 975  |
| Glu Lys Leu Glu Arg Thr Pro Glu Lys | Asp Lys Ile Ala Ser | Ser  |
| 980                                 | 985                 | 990  |
| Thr Thr Pro Ala Lys Lys Ile Lys Leu | Asn Arg Glu Thr Gly | Lys  |
| 995                                 | 1000                | 1005 |
| Lys Ile Gly Asn Ala Glu Asn Ala Ser | Thr Thr Lys Glu Pro | Ser  |
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| Glu Lys Leu Glu Ser Thr Ser Ser Lys | Ile Lys Gln Glu Lys | Val  |
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| Pro Val Arg Lys Ser Glu Glu Lys Thr | Asp Thr Lys Arg Thr | Val  |
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| Ile Lys Thr Met Glu Glu Tyr Asn Asn | Asp Asn Thr Ala Pro | Ala  |
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| Lys Asp Asp Phe Glu Ser Glu Glu Glu | Asp Val Lys Thr Thr | Gln  |
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| 1160                                | 1165                | 1170 |
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| Leu Ser Gln Ser Ser Lys Glu Thr Arg | Thr Ser Glu Lys His | Glu  |
| 1235                                | 1240                | 1245 |
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| 1250                                | 1255                | 1260 |
| Lys Lys Val Asp Tyr Asp Ser Arg Asp | Tyr Ser Ser Ser Lys | Arg  |
| 1265                                | 1270                | 1275 |
| Arg Asp Glu Arg Gly Glu Leu Ala Arg | Arg Lys Asp Ser Pro | Pro  |
| 1280                                | 1285                | 1290 |
| Arg Gly Lys Glu Ser Leu Ser Gly Gln | Lys Ser Lys Leu Arg | Glu  |
| 1295                                | 1300                | 1305 |
| Glu Arg Asp Leu Pro Lys Lys Gly Ala | Glu Ser Lys Lys Ser | Asn  |
| 1310                                | 1315                | 1320 |
| Ser Ser Pro Pro Arg Asp Lys Lys Pro | His Asp His Lys Ala | Pro  |
| 1325                                | 1330                | 1335 |
| Tyr Glu Thr Lys Arg Pro Cys Glu Glu | Thr Lys Pro Val Asp | Lys  |

|                 |                     |                         |      |
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| Gly Lys Glu Ser | Ser Gly Ala Asn Cys | His Val Tyr Leu Thr Arg |      |
| 1370            | 1375                | 1380                    |      |
| Gln Thr Leu Pro | Trp Arg Arg Ser Trp | Leu Leu Gly Arg Trp Arg |      |
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| aaagcctatt  | atgggcggag  | tgtcgacttt | agagacccat  | ttgagaaaaga | acgctaccgg  | 1980 |
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| aagaagaaca  | aagacaagga  | gaaggagaaa | gatgaccaaa  | aagtgagatc  | tgtcactgtg  | 4860 |
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| atgtaaagag  | attccagcct  | tgtaaataat | gaatggaaaga | ccctgtgt    | cacttaaaaag | 4980 |

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